

PROCEEDINGS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON

SERIES C. JOURNAL OF MEETINGS

VOLUME 8.

No. 5, 1943

GENERAL MEETING

5TH MAY, 1943, at 3.30 p.m.

AGENDA

1. Confirmation of the Proceedings of the General Meeting held on 7th April, 1943.
2. Recommendations of candidates for Fellowship.
3. Announcement of election of new Fellows.
4. The following additions have been made to the Library since the meeting on 7th April, 1943.

Purchased.

Janse, A. J. T. : *The Moths of South Africa. Jugatae.* Vol. 4, Part 1, 1942.

Presented.

Baerg, W. J. : *Introduction to Applied Entomology.* Second Edition. Minneapolis, 1942.

Westwood, J. O. : *The Entomologist's Text-Book, an introduction to the natural history, structure, physiology and classification of insects, including the Crustacea and Arachnida.* London, 1838. [Mr. J. B. Noble.]

Hick, P. : *Giant Moths of the Jungle. How to obtain and rear them in England.* [Bexley, c. 1938.] [Mr. R. L. E. Ford.]

Box, H. E. : *Citrus Moth Investigations. Report on investigations carried out from December, 1939 to August, 1941. Gold Coast, Colonial Development Fund.* Asuansi, 1942. [The author.]

In addition, separates have been presented by Mr. A. H. Hamm, Prof. A. J. T. Janse, Mr. C. F. Jacot-Guillarmod, Mr. G. Fox-Wilson, Dr. A. D. Imms, F.R.S., Dr. B. P. Beirne, the United States Department of Agriculture, and the American Entomological Society.

5. Admission of Fellows.
6. Communications.

1. Dr. K. Jordan, F.R.S.

A case of progressive evolution in Coleoptera which, if uncontrolled, would lead to extinction.

[Abstract.]

One hundred years ago it was discovered that in some families of Coleoptera all the abdominal sterna are free, and in the other families two or more connate. Connation proceeds from the base to the end of the abdomen (*Clythra* and allied genera represent another kind of connation). In CERAMBYCIDAE sterna II and III are connate, in the bulk of the CURCULIONIDAE II to IV, in TENEBRIONIDAE II to V and in families as widely different as the *Lamellicornia* and ANTHRIBIDAE all sterna or all but the last one; evidently a trend of progressive connation in Coleoptera. Does this orthogenesis exist in any single family? Statements in literature about connation being often erroneous or contradictory, the range of variation requires further to be studied in each family. In many families the number of connate sterna appears to be constant or to vary at most by one. The ATTELABINAE are an exception among CURCULIONIDAE, agreeing with many ANTHRIBIDAE in all sterna but the last one being connate, and this last not always entirely free. Moreover, here the dorsal half-rings are likewise united, only the pygidium being movable up and down. Connation and sclerotisation have turned the Attelabine abdomen into a capsule, stiff above and below. If this process went one step further (a possibility which orthogenesis suggests), rendering the pygidium immobile, the abdomen would be closed, and gut and sexual organs could not function. The beetle afflicted would perish after a while. Such specimens (of *Apoderus* and *Attelabus* in Great Britain) might be found and evolution be observed in action. The very wide distribution of the ATTELABINAE, their great difference from the CURCULIONIDAE, the diversity of the existing species and the smallness of their number are significant.

2. Prof. G. D. Hale Carpenter.

An account of the variation of the North American White Admiral Butterfly *Limenitis californica* Butler.

3. Communications and exhibits the titles of which have been received since the circulation of these agenda.

Fellows are particularly requested to bring suitable exhibits to the General Meetings even though it may not be possible to announce their intention to do so before the meeting.

Tea will be served in the Library after the meeting.

NOTICE.

Fellows are reminded that systematic papers for which they are anxious to secure early publication can now be published with very little delay in *Proceedings Series B*, provided they do not exceed a length of some eight printed pages.

PROCEEDINGS OF THE GENERAL MEETING HELD ON 7TH APRIL, 1943.

Dr. E. A. COCKAYNE, M.A., F.R.C.P., President, in the Chair.

Present, 38 Fellows and 1 Visitor.

The minutes of the meeting held on 3rd March were confirmed and signed by the President.

The Secretary read the names of the following new candidates for election : Mrs. E. W. Howarth, W. L. Rudland, and M. W. R. de Vere Graham.

The Secretary announced that the following had been elected Fellows of the Society : Elijah Stanier, The Bungalow, Green Lane, Blythe Bridge, Stoke-on-Trent; James Alfred Stephens, 44, Mount Road, Chatham; and W. E. F. Thomson, Abercorn, Northern Rhodesia.

The President announced that Professor P. A. Buxton, President for the year 1942, had been elected to the Fellowship of the Royal Society.

Mr. L. Hugh Newman and Mr. R. R. Broome signed the Obligation Book and were admitted Fellows.

Thanks were voted to donors of gifts to the Library since the last meeting.

The following papers were read in title :—

“A revision of the SPATHIINAE of the Old World (Hym. BRACONIDAE).”
By G. E. J. Nixon.

“The natural foods and the food requirements of several species of stored products insects.” By G. Fraenkel and M. Blewett, communicated by O. W. Richards.

The Treasurer drew the attention of the meeting to an unsuspected aspect of war damage insurance of unsold stocks of publications belonging to scientific societies. He pointed out that these were not covered under the normal war damage insurance, a separate Commodity Risk Insurance being needed to cover them. He asked Fellows to make this fact known as widely as possible amongst other societies.

Communications were made by Dr. E. T. Burt and Mr. N. G. Wykes, abstracts of which appeared on pages 9–10.

In addition Mr. H. St. J. K. Donisthorpe exhibited a specimen of the beetle *Sitona humeralis* Stephens which had entered the cabin of an aircraft on March 16th, 1943, at 15.30 hours, when Sergeant George was flying at 3400 feet above ground-level, about ten miles south of Lincoln. This weevil is common in the south of England and the home counties, but rarer farther north. It is found on clover, vetch, trefoil, etc.

N. D. RILEY, *Hon. Secretary.*

NOTICES

ADMISSION OF FELLOWS

Any Fellow who has not been formally admitted to the Society under Chapter XIV, Section 4 of the Bye-Laws and attends the meeting on 5th May, 1943, is requested to inform the Registrar before 3.15 p.m. on that date.

THE GENERIC NAMES OF BRITISH INSECTS, prepared by the Committee on Generic Nomenclature of the Royal Entomological Society of London, with the assistance of the Department of Entomology of the British Museum (Natural History):

- | | | |
|---------|---|----------------|
| Part 1. | Recommendations relating to the publication of the committee's reports | price 6d. |
| Part 2. | The generic names of the British Rhopalocera with a check list of the species | price 3s. 6d. |
| Part 3. | The generic names of the British Odonata with a check list of the species | price 3s. 6d. |
| Part 4. | The generic names of the British Neuroptera, with a check list of the British species | price 3s. 6d. |
| Part 5. | The generic names of the British Hymenoptera Aculeata, with a check list of the British species | price 15s. 0d. |
| Part 6. | The generic names of the British CARABIDAE, with a check list of the British species | price 10s. 0d. |
| Part 7. | The generic names of the British Hydradephaga, with a check list of the British species | price 5s. 0d. |

STYLOPS, a Journal of Taxonomic Entomology.

1932-1935. Vols. 1-4 (all issued). Price £1 16s. 0d. each; to Fellows, £1 7s. 0d.

ABSTRACT OF PROCEEDINGS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON. 1935. Nos. 1-6 (all issued). 3s. 0d.

HÜBNER: A BIBLIOGRAPHICAL AND SYSTEMATIC ACCOUNT OF THE ENTOMOLOGICAL WORKS OF JACOB HÜBNER AND THE SUPPLEMENTS THERETO. In 2 vols. By Francis Hemming.

Price	Vol. 1.	605 pp.	£1 15s. 0d.
	„	Vol. 2.	275 pp. 15s. 0d.

The next Meeting will be held on 2nd June, 1943, at 3.30 p.m.

Published by THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON *and sold at its Rooms, 41, Queen's Gate, S.W.7, price 6d.*